

### **AMENDMENTS TO THE CLAIMS**

Claims 1-41 are cancelled without prejudice.

Please add the following claims:

42. (New) A method for determining a polarity of a sync pulse, said method comprising:

counting a number of pixels or lines;

determining that the polarity of the sync pulse is the same as a previously determined polarity, if the sync pulse is detected before the counted number of pixels or lines is equivalent to a certain value; and

determining that the polarity of the sync pulse is the opposite of the previously determined polarity, if the counted number of pixels or lines is equivalent to a certain value.

43. (New) The method of claim 42, wherein counting a number of pixels comprises:

loading a counter with the certain value; and

decrementing contents of the counter.

44. (New) The method of claim 42, further comprising:

determining the certain number, wherein determining the certain number further comprises:

detecting a first pulse edge; and

incrementing contents of a counter until detecting a second pulse edge.

45. (New) A circuit for determining a polarity of a sync pulse, said method comprising:

a counter for counting a number of pixels or lines; and

a processor for determining that the polarity of the sync pulse is the same as a previously determined polarity, if the sync pulse is detected before the counted number of pixels or lines is equivalent to a certain value and determining that the polarity of the sync pulse is the opposite of the previously determined polarity, if the counted number of pixels or lines is equivalent to a certain value.

46. (New) The circuit of claim 45, wherein the counter is loaded with the certain value and is decremented.

47. (New) The circuit of claim 45, wherein the certain number is determined by:

detecting a first pulse edge; and

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incrementing contents of the counter until detecting a second pulse edge.